

Claims

1. A method of constructing a drilling or production platform, said method comprising:

5 drilling a post hole into a ground surface;

inserting a support post into said post hole, wherein said support post further comprises an adjustable shoulder member;

adding a fluid slurry to said post hole to freeze said support post within an interior region of said post hole;

10 disposing a modular platform section on top of said adjustable shoulder member to establish a platform deck surface; and

adjusting said adjustable shoulder member so that said platform deck surface is disposed substantially level, regardless of the pitch or unevenness of said ground surface.

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2. A method of constructing a drilling or production platform, said method comprising:

drilling a support post into a ground surface, wherein said support post further comprises an adjustable shoulder member;

20 disposing a modular platform section on top of said adjustable shoulder member to establish a platform deck surface; and

adjusting said adjustable shoulder member so that said platform deck surface is disposed substantially level, regardless of the pitch or unevenness of said ground surface.

3. A method of constructing a drilling or production platform, said method comprising:

hammering a support post into a ground surface, wherein said support post
5 further comprises an adjustable shoulder member;

disposing a modular platform section on top of said adjustable shoulder member
to establish a platform deck surface; and

adjusting said adjustable shoulder member so that said platform deck surface is
disposed substantially level, regardless of the pitch or unevenness of said ground
10 surface.

4. A method of constructing a platform suitable for drilling and producing oil,
gas and hydrate reserves, said method comprising:

disposing a platform section atop a plurality of support posts;
15 disposing two substantially parallel support beam sections between two of said
support posts; and

disposing a deck section atop said two substantially parallel support beams to
provide a bridging support means between said two substantially parallel beams.

20 5. A method of constructing an arctic drilling platform, said method comprising:
providing a first platform section supported by a first plurality of support posts,
wherein each of said support posts are disposed proximate to the corners of said first
platform section;

providing a second platform section, wherein said second platform section further comprises a fastening member that fastens onto a first side of said first platform section;

providing a second plurality of support posts to support a side of said second platform section disposed opposite said fastening member; and

5 providing a third platform section, wherein said third platform section further comprises a fastening member that fastens onto a side of said second platform section opposite said second plurality of support posts.

6. A method of assembling a plurality of interlocking modular platform sections
10 useful for supporting drilling equipment on a deck surface, said method comprising:

disposing a first modular platform section and a second modular platform section atop a plurality of platform support posts; and

disposing a fastening member and a fastener receiving member proximate an interface formed between said first platform section and said second platform section,
15 wherein said fastening member is disposed along a side portion of said first platform section, and said fastener receiving member is disposed on a side portion of said second platform section.

7. A method of communicating utilities between a deck section and a platform
20 section of a drilling platform, said method comprising:

disposing a deck section atop a platform section;

disposing one or more holes in a top surface of said deck section to permit utility communication between an interior region of said deck section and a deck surface disposed atop said deck section; and

disposing one or more holes between a lower surface of said deck section and an upper surface of said platform section.

8. A method of heating a drilling platform support post, said method comprising:
5 disposing a fluid conduit through a body portion of said support post;
disposing a hollow fluid transfer member around an outer surface of said support post, wherein said fluid conduit disposed in a body portion of said support post is in fluid communication with said hollow fluid transfer member disposed on said outer surface of said support post; and
10 drawing a heating fluid into said fluid conduit and passing said heating fluid through said hollow fluid transfer member.

9. A method of heating a drilling platform support post, said method comprising:
disposing a fluid conduit through a body portion of said support post;
15 disposing a hollow fluid transfer member around an inner surface of said support post, wherein said fluid conduit is disposed in fluid communication with said hollow fluid transfer member; and
drawing a heating fluid into said fluid conduit and passing said heating fluid through said hollow fluid transfer member.

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10. A method of removing a platform support post from a surrounding ground surface, said method comprising:

circulating a heating fluid through a hollow fluid transfer member contained on or within a support post; and

applying force to said support post to remove said support post from the surrounding ground.

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11. A method of removing a platform support post from a surrounding ground surface, said method comprising:

circulating a fluid through a hollow fluid transfer member contained on or within a support post;

10 venting the fluid to the surrounding ground surface through one or more jet parts; and

applying force to the support post to remove said support post from the surrounding ground.

15 12. A method of adjusting the height of a modular drilling platform section, said method comprising:

disposing a modular platform section atop an adjustable shoulder nut disposed on a support post, wherein a top portion of said support post further comprises a lift receiving means;

20 disposing a lifting means proximate to said lift receiving means, and then mutually engaging said lifting means and said lift receiving means;

lifting said modular platform section off of said adjustable shoulder nut and then supporting said modular platform section using a support means;

raising said adjustable shoulder nut; and
replacing said modular platform section atop said adjustable shoulder nut using
said support means.

5 13. A method of sealing an intersection formed between a plurality of
interlocked platform modules, said method comprising:

disposing four interlocked platform modules so that a four-way intersection is
formed therebetween; and

sealing said four-way intersection using a sealing means.

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14. A method of sealing an intersection formed between a plurality of
interlocked platform modules, said method comprising:

disposing four interlocked platform modules so that a four-way intersection is
formed therebetween; and

15 disposing a sealing member over said four-way intersection, wherein said sealing
member comprises a body member and a plurality of leg members.